Date: Thu, 11 Mar 93 14:41:55 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #307
To: Info-Hams

Info-Hams Digest Thu, 11 Mar 93 Volume 93 : Issue 307

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 11 Mar 93 16:38:23 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: A pair of coax <-> ladder line ???
To: info-hams@ucsd.edu

In article <9124@tekig7.PEN.TEK.COM>, royle@tekig6.PEN.TEK.COM (Roy W
Lewallen) wrote:
> ....All else being equal, the fraction of power lost
> is inversely proportional to line impedance.

Roy-

This is only true to a point. From school 25 years ago, I recall
derivations concerning transmission lines with regard to "maximum power

handling capability" and "minimum loss". It seems that there is a specific value for each.

In the case of minimum loss Co-Ax, the value was about 72 ohms for air dielectric, and about 52 ohms for polyethylene dielectric. The optimum value related to the ratio of diameters rather than impedance. I don't recall any other details, but the information is probably available in most college transmission lines textbooks.

As far as double Co-Ax is concerned, there is a commercial version, referred to as "Twin-Ax". However, this is usually found in applications where it is properly matched. (When using it for Video, a mismatch might cause "ghosting".)

There is also a "Tri-Ax" cable, where there is a second shield between the center conductor and the outer shield. I'm not sure what its purpose is. I assume it isn't as "balanced" as either Twin-Ax or a double Co-Ax would be.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 11 Mar 93 21:57:57 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 10 March
To: info-hams@ucsd.edu

```
!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 069, 03/10/93
10.7 FLUX=148.7  90-AVG=137        SSN=127      BKI=3221 3312  BAI=009
BGND-XRAY=B3.1     FLU1=5.7E+06  FLU10=2.1E+04  PKI=4322 2223  PAI=011
  BOU-DEV=033,019,011,006,023,021,006,018   DEV-AVG=017 NT     SWF=00:000
 XRAY-MAX= C4.1   @ 1227UT    XRAY-MIN= B1.4   @ 0708UT   XRAY-AVG= C1.0
NEUTN-MAX= +000%  @ 2355UT   NEUTN-MIN= -004%  @ 2245UT  NEUTN-AVG= -1.4%
  PCA-MAX= +0.2DB @ 0015UT     PCA-MIN= -0.6DB @ 1335UT    PCA-AVG= -0.0DB
BOUTF-MAX=55413NT @ 0049UT   BOUTF-MIN=55378NT @ 1900UT  BOUTF-AVG=55400NT
GOES7-MAX=P:+110NT@ 1523UT   GOES7-MIN=N:-001NT@ 0142UT  G7-AVG=+072,+048,+011
GOES6-MAX=P:+133NT@ 1522UT   GOES6-MIN=N:-125NT@ 0402UT  G6-AVG=+087,+001,-062
 FLUXFCST=STD:145,140,135;SESC:145,140,135 BAI/PAI-FCST=010,010,015/012,010,015
    KFCST=2223 4422 2233 4322  27DAY-AP=014,009   27DAY-KP=4332 3334 3323 2222
 WARNINGS=*MAJFLR;*SWF;*PROTON;*PCA
   ALERTS=**SWEEP:II=2@2048-2055UTC;**245STRM:0144-2222UTC
!!END-DATA!!
```

Date: 11 Mar 1993 21:14:17 GMT
From: usc!zaphod.mps.ohio-state.edu!saimiri.primate.wisc.edu!
usenet.coe.montana.edu!news.uoregon.edu!fp2-st-affairs-2.uoregon.edu!
user@network.UCSD.EDU
Subject: F6FNU QSL manager
To: info-hams@ucsd.edu

In article <1993Mar11.181322.12342@proton.llumc.edu>, britton@psi.llumc.edu
(Barrie Britton) wrote:
>
>
>   2) You must include a self-addressed envelope (SAE) and $2 U.S.

> Also, the article says that the 1993 Callbook address for F6FNU is
> wrong. Use the following:
>
>   P.O. Box 14
>   F-91291 Arpajon Cedex
>   FRANCE
So who got to keep all the green stamps we sent to the 1993 callbook
address? I sent a card out for 3X0HNU several weeks ago and nothing was
returned saying that it was undeliverable. Shoot, I've even had envelopes
come back from RUSSIA saying my letter was undeliverable (of course, the
envelope was slit open and the green stamp was removed. But the envelope
came back!).

Date: 11 Mar 93 20:39:23 GMT
From: news-mail-gateway@ucsd.edu
Subject: Ham Radio Outlet incident
To: info-hams@ucsd.edu

Steve says:
.
> dealers. And I don't like seeing ads with "CALL" in place of the price

> for either cameras or radios. Have you noticed the ad(s) in QST with an
> entire page filled up with "call" after every single item!?! So as a

> general policy, if the price isn't listed, I don't read the ad. And I

> don't order from them, or go to their store. That may cost me a little

>

.

My .02: I have nothing AGAINST stores advertising items without prices. I for one am fully supportive of the right of businesses to conduct their business in any manner they choose, so long as they follow fair and ethical practices, ie

as long as they deliver products and services as promised, for the agreed upon price, and in a timely fasion.

If they think they can gain a competitive edge by not advertising prices, or by negotiating each deal on a per-person basis - more power to them! I hope they

do well! And I will buy from them if they happen to have whay I want and I KNOW that they have what I want, for the price I'm willing to pay. Sometimes I do buy

equipment that way.

So that's the political commentary.

Here's the reality: Ham radio, hi-end audio, computers, electronics - and most other

hobbies for that matter - are activities people engage in for FUN. And part of that
fun (for me anyway) is browsing through stores and catalogs just kind of theorizing
about all the stuff I might, could, would-if-I-could, will do/did with this, that or
the other thing!

And that is NO fun without prices. Therefore I never look at ads with no prices. Not because I don't agree with the policy, but because that is just not the way I usually end up buying things.

One of my hobbies is theatrical stage lighting. Therefore, I have piles of catalogs
and magazines filled with information on lighting boards, dimmer packs, lighting instruments, media, effects, etc. Do I purchase? Well, yes, I do purchase equipment for myself and I do recommend purchases for clients, and I do specify equipment for rentals. But I'm not a major market force and I don't make money for

most of the manufacturers who send me catalogs and info. But I DO appreciate their

attention, and I DO put my money on the table when I can.

For those who try to please their customers in any way feasible, there is generally

a profit to be made.

- -

    \||/   Ben Mehlman   Indigo..
   ^   ^   Trirex Systems Inc

   #   #   bmehlman@trirex.com   Indigoing..
     @
   ___/   >NeXTMail Welcome<   Indigone.

- -

Date: 11 Mar 93 14:35:47 GMT
From: mcsun!sunic!psinntp!psinntp!arrl.org@uunet.uu.net
Subject: HTX-202 Modification (NEW!)
To: info-hams@ucsd.edu

Fred Lloyd kindly posted this modification to use the
subject transceiver out of band. In the spirit of "just like
QST, except..." I substituted an IC-751A and a Kenwood TH-25
2-meter handheld.

Eureka! Now the Kenwood receives HF! I plan to go Fred one better,
though, and make the Kenwood transmit on HF, too. All I need is
another cable.....

73,

Jim, KR1S

--
jkearman@arrl.org

Date: 11 Mar 93 21:07:07 GMT
From: news-mail-gateway@ucsd.edu
Subject: MINIMUF Propogation source
To: info-hams@ucsd.edu

Does anybody have an electronic copy of the MINIMUF
BASIC program that was in QST quite a few years back
that they could email me?
              Thanks and 73 - Warren (8 weeks and still waiting)

--
Warren E. Lewis saswel@unx.sas.com
Graphics Division (919) 677-8001 x6542
SAS Institute Inc. PP-ASEL
Cary, NC DOD#0021

Date: Thu, 11 Mar 1993 18:05:21 GMT
From: news.acns.nwu.edu!thor.isp.nwu.edu!wn9s@network.UCSD.EDU
Subject: N9NS/KH5K on the air
To: info-hams@ucsd.edu

I was wondering if those present on the Net could help find the QSL info for the following stations: (Some of them are from the ARRL DX contests):

EA8EA
P49V
TG9AJR
ZF1A
4N4CQ
YN1CC
5R8DL
V63NI
VR6BB
7Q7XX
ZL7AA
5W0CW
HH2PK

I thank you all in advance for your assistance! You can email me at my email address or post to the net. I would be more likely to find it if it is emailed to me 8-)!!!

See you in the pile-ups for KH5K!!!!

73
Albert
wn9s@thor.isp.nwu.edu

--

Albert E. Schmelzer Northwestern University
9044 N. Keeler Avenue Integrated Science Program

Date: 11 Mar 93 22:22:28 GMT
From: news-mail-gateway@ucsd.edu
Subject: Weekly Solar Terrestrial Forecast & Review - 12-21Mar
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
March 12 to March 21, 1993

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008

For information regarding our Dynamic Auroral Oval Simulator and its importance in aiding to determing propagation conditions, send a request for more information to:
Oler@Rho.Uleth.CA, or COler@Solar.Stanford.Edu

Our Spring Special is now in effect for this software and will remain active until 31 July, 1993.

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

10-DAY SOLAR/RADIO/MAGNETIC/AURORAL ACTIVITY OUTLOOK

	Solar	HF Propagation							SID PROB. Es				AU.BKSR				Mag	Aurora		
	Activty	LO	MI	HI	PO	SWF	%MUF	%	ENH	LO	MI	HI	LO	MI	HI	%	K Ap	LO	MI	HI
12	MOD-HI	VG	F	P	P	65	-15	60	40	NA	NA	NA	05	40	60	40	5 26	NV	MO	MO
13	MOD-HI	G	F	P	P	60	-10	60	40	NA	NA	NA	03	35	50	35	5 22	NV	LO	MO
14	MOD-HI	G	G	P	F	50	-05	60	40	NA	NA	NA	03	30	50	35	4 15	NV	NV	MO
15	MOD	VG	G	F	F	50	00	60	35	NA	NA	NA	03	30	40	35	3 12	NV	NV	LO
16	MOD	VG	G	F	F	50	-05	60	35	NA	NA	NA	03	30	40	35	4 18	NV	LO	LO
17	LOW-MOD	VG	G	F	F	40	-05	60	30	NA	NA	NA	03	25	40	35	4 15	NV	NV	LO
18	LOW	VG	G	F	F	30	00	60	20	NA	NA	NA	02	15	35	35	3 12	NV	NV	LO
19	LOW	VG	G	P	F	20	00	65	15	NA	NA	NA	02	10	35	35	3 12	NV	NV	LO
20	LOW	G	F	P	P	20	-05	65	15	NA	NA	NA	03	15	40	30	4 15	NV	LO	MO
21	LOW	G	F	P	P	20	-15	65	15	NA	NA	NA	03	25	45	30	5 25	NV	MO	MO

DEFINITIONS:

Date (day only)

Possible Magnitude of Solar Flaring (LOW=C-class, MOD=M-class, HIGH=M or X)
HF Propagation Conditions for LOw, MIddle, HIgh, and POlar areas (see below)
HF Short Wave Fade Probability (in %)
HF Maximum Usable Frequency in +/- percent above seasonal normals.
HF Prediction CONfidence Level (in %)
VHF Sudden Ionospheric ENHancement Probs (in %), weighted for low-mid lats
PROBability of "s"poradic E (Es) during the UT day for low, mid and high lats
VHF AUroral BacKScatteR Probs (in %) for LOw, MIddle and HIgh Latitudes
VHF Overall Global DX Potential (in %) - weighted for Low and Middle latitudes
Geomagnetic Activity Kp Index (peak value - see below)
GeoMAGnetic Activity Ap Index (peak value - see below)
AURORAl Activity for LOw, MIddle and HIgh Latitudes (see below)

HF Prop. Quality rated as: EG=Extremely Good, VG=Very Good, G=Good, F=Fair,
   P=Poor, VP=Very Poor, EP=Extremely Poor.
Probability of Sporadic E (Es) for the various latitudes is given in percent.
Kp Planetary Index rated: 0=V.Quiet, 1=Quiet, 2=Unstld, 3=Active, 4=V.Active,
   5=Minor Storm, 6=Major Storm, 7=Maj-Sev Storm, 8=Severe Storm, 9=V.Severe.
Ap Planetary Index rated: 0-7=Quiet, 8-16=Unstld, 17-29=Active,
   30-49=Minor Storm, 50-99=Major Storm, Severe Storm >=100.
Auroral Activity rated: NV=Not Visible, LO=Low, MO=Moderate, HI=High,
   VH=Very High.

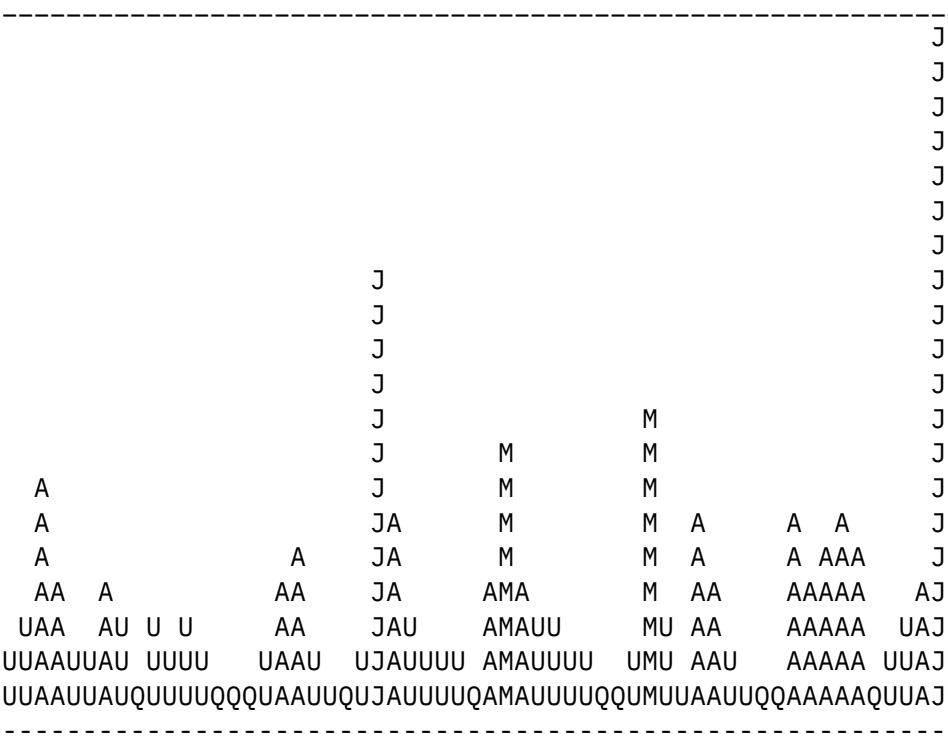
PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (12 MAR - 21 MAR)

EXTREMELY SEVERE										HIGH
VERY SEVERE STORM										HIGH
SEVERE STORM										MODERATE
MAJOR STORM										LOW - MOD.
MINOR STORM	**	*							**	LOW
VERY ACTIVE	***	**	*		*			*	***	***	NONE
ACTIVE	***	***	***	**	***	**	**	***	***	***	NONE
UNSETTLED	***	***	***	***	***	***	***	***	***	***	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	NONE
Geomagnetic Field Conditions	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly Intensity
	Given in 8-hour UT intervals									

CONFIDENCE LEVEL: 65%

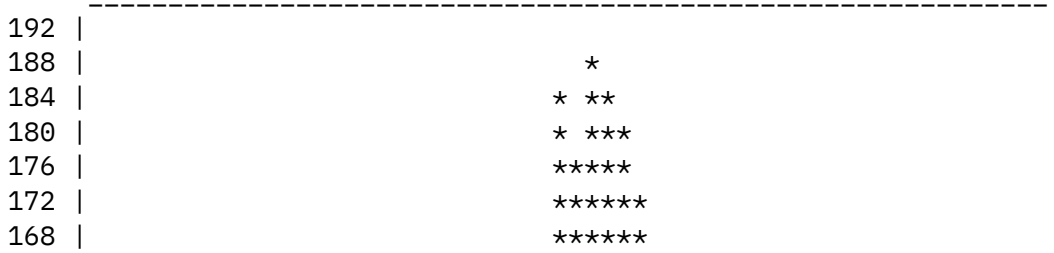
NOTES:
Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

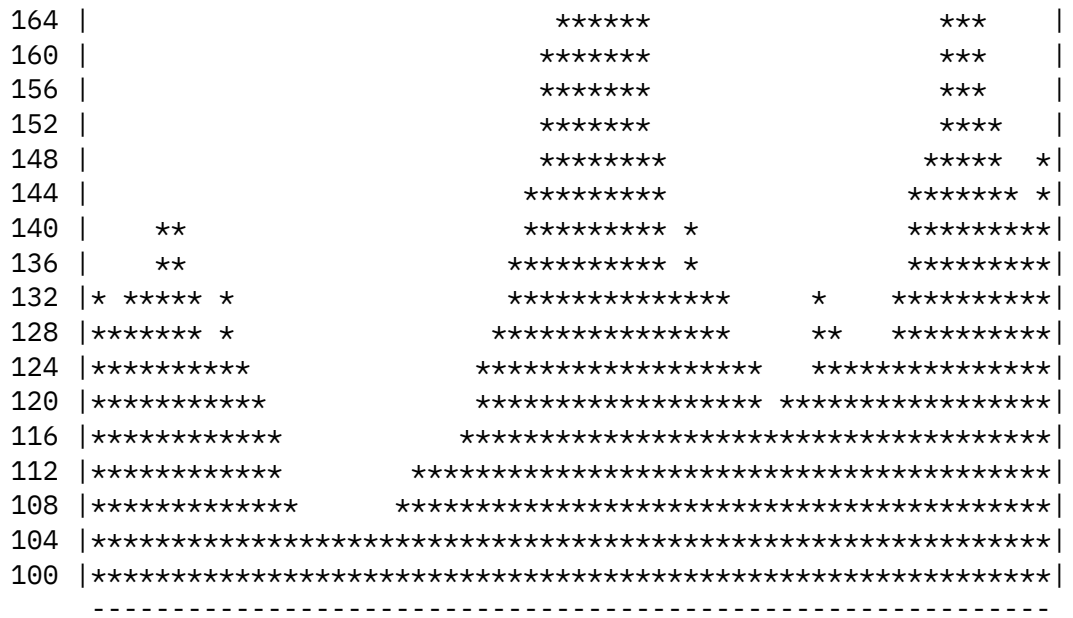
60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY



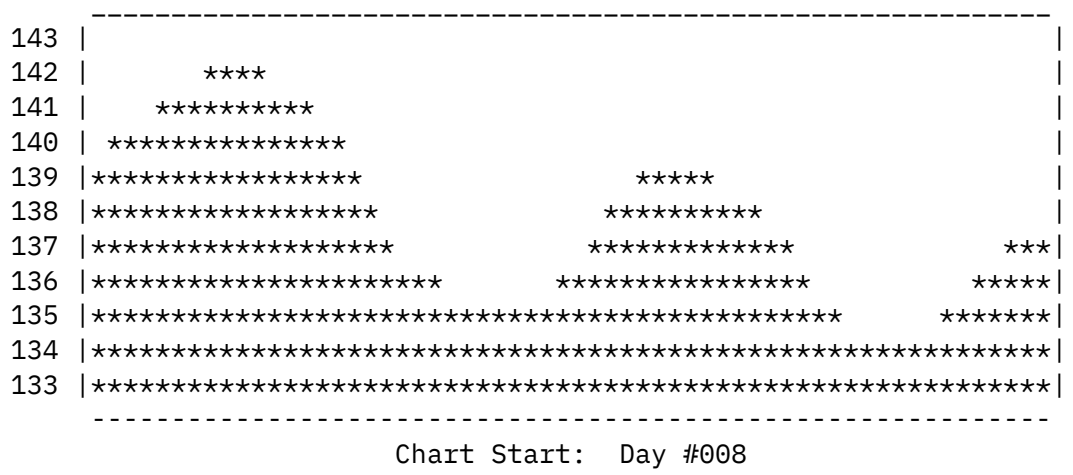
NOTES:
This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.
Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX





GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX



NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun. The 90-day mean solar flux graph is charted from the 90-day mean of the 10.7 cm solar radio flux.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

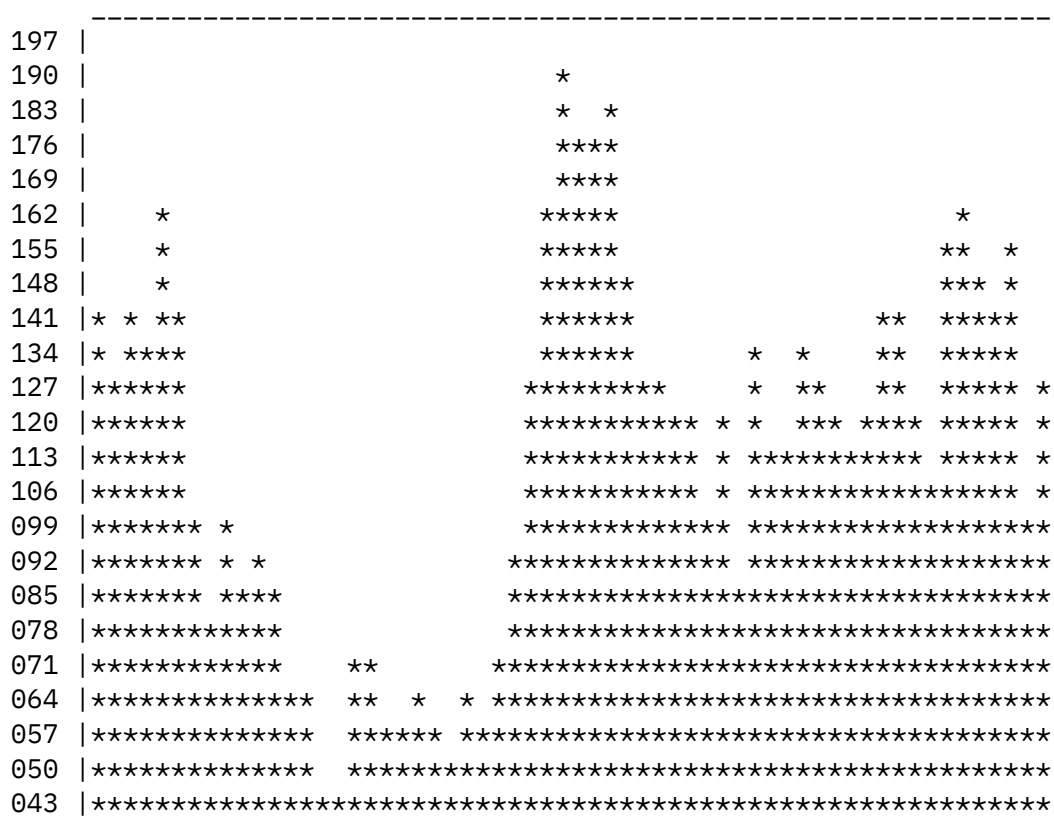
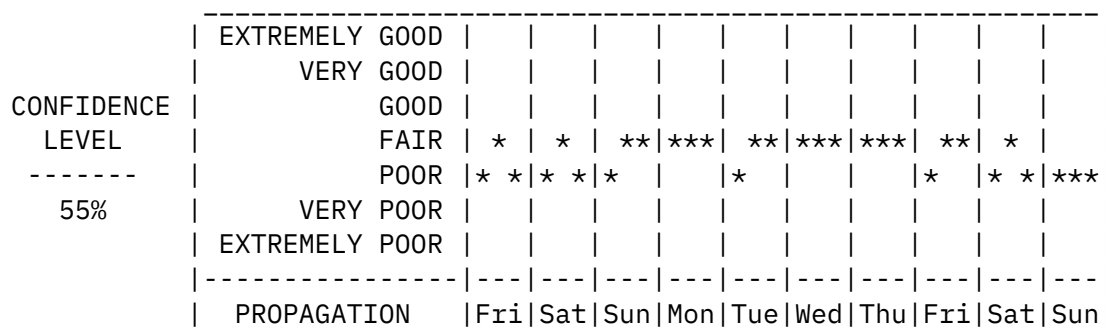


Chart Start: Day #008

NOTES:
The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (12 MAR - 21 MAR)

High Latitude Paths



QUALITY	Given in 8 Local-Hour Intervals

Middle Latitude Paths

CONFIDENCE LEVEL 60%	PROPAGATION QUALITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD										
	GOOD	**	**	***	***	***	***	***	***	**	**
	FAIR	*	*							*	*
	POOR										
	VERY POOR										
	EXTREMELY POOR										

Low Latitude Paths

CONFIDENCE LEVEL 65%	PROPAGATION QUALITY	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	EXTREMELY GOOD										
	VERY GOOD			*	*	*	*	*	*	*	
	GOOD	***	***	* *	* *	* *	* *	* *	* *	* *	***
	FAIR										
	POOR										
	VERY POOR										
	EXTREMELY POOR										

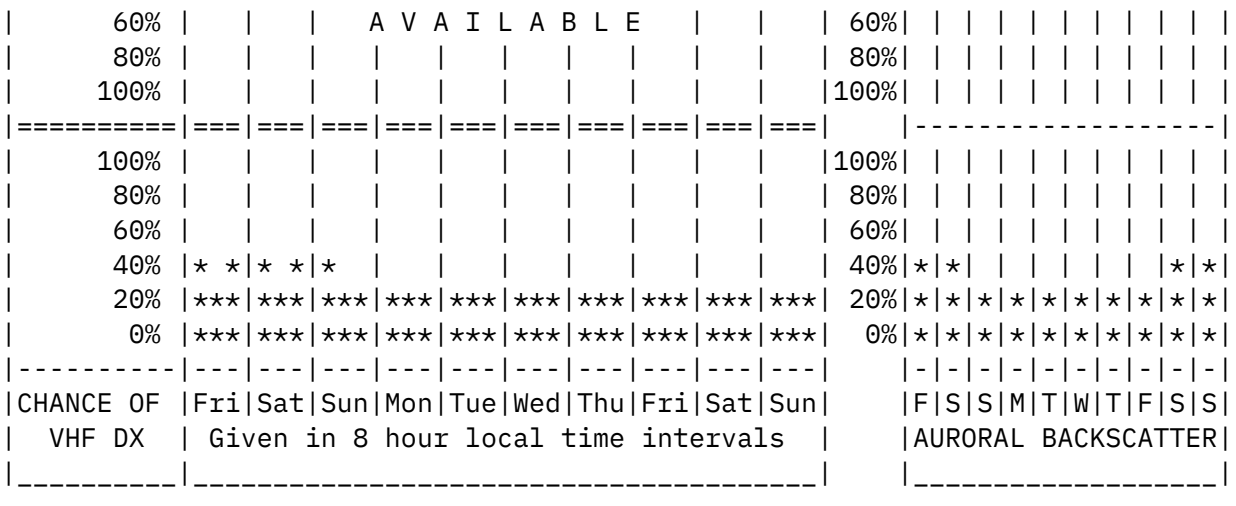
NOTES:

NORTHERN HEMISPHERE	SOUTHERN HEMISPHERE
High latitudes >= 55 deg. N.	High latitudes >= 55 deg. S.
Middle latitudes >= 40 < 55 deg. N.	Middle latitudes >= 30 < 55 deg. S.
Low latitudes < 40 deg. N.	Low latitudes < 30 deg. S.

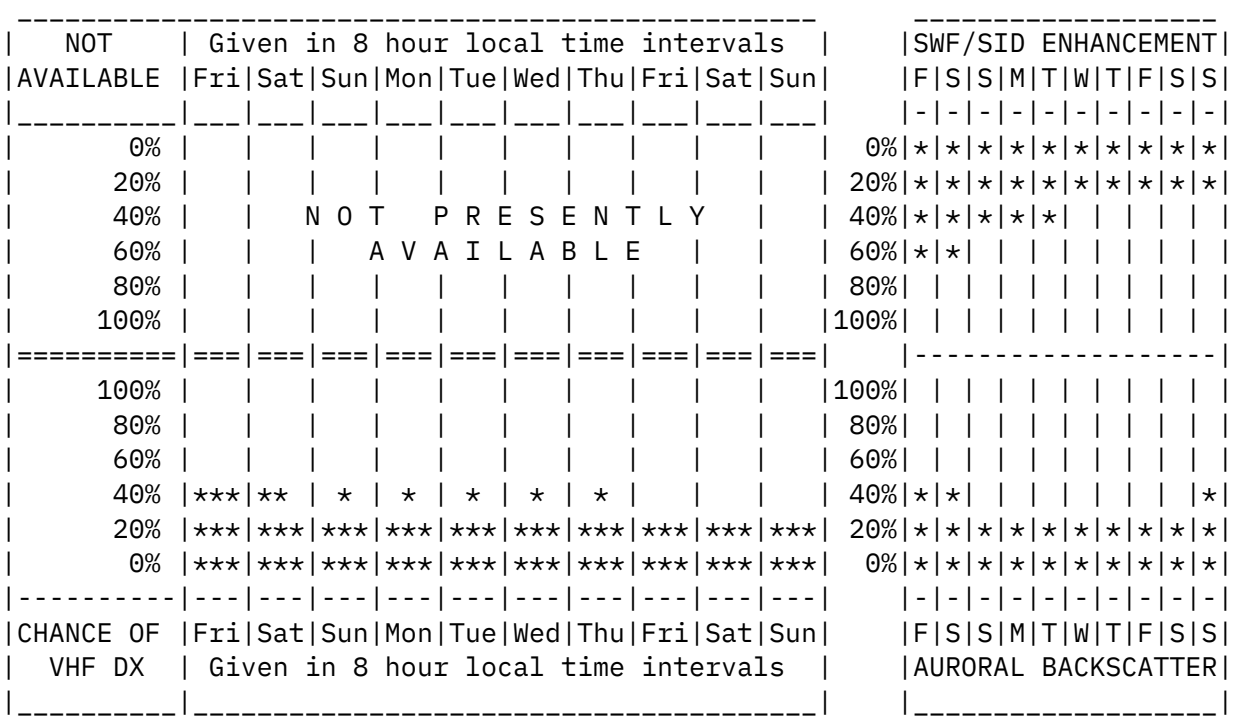
POTENTIAL VHF DX PROPAGATION PREDICTIONS (12 MAR - 21 MAR)
INCLUDES SID AND AURORAL BACKSCATTER ENHANCEMENT PREDICTIONS

HIGH LATITUDES

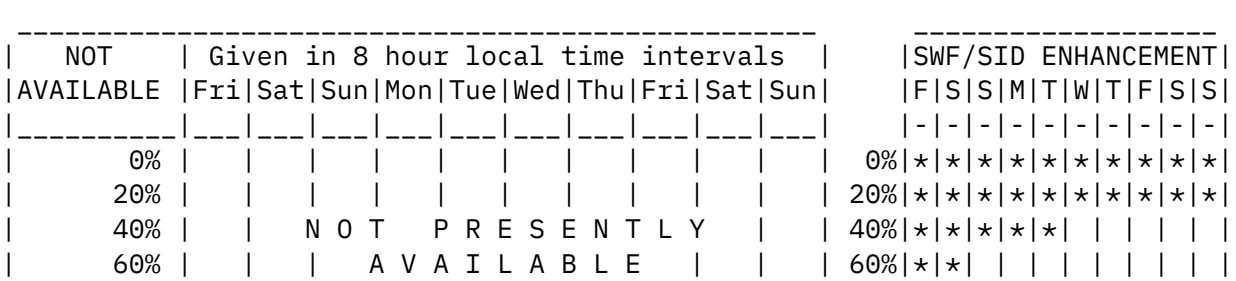
NOT AVAILABLE	Given in 8 hour local time intervals										SWF/SID ENHANCEMENT									
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		F	S	S	M	T	W	T	F	S	S
0%											0%	*	*	*	*	*	*	*	*	*
20%											20%	*	*	*	*	*	*				
40%			N O T P R E S E N T L Y								40%	*	*	*	*	*					

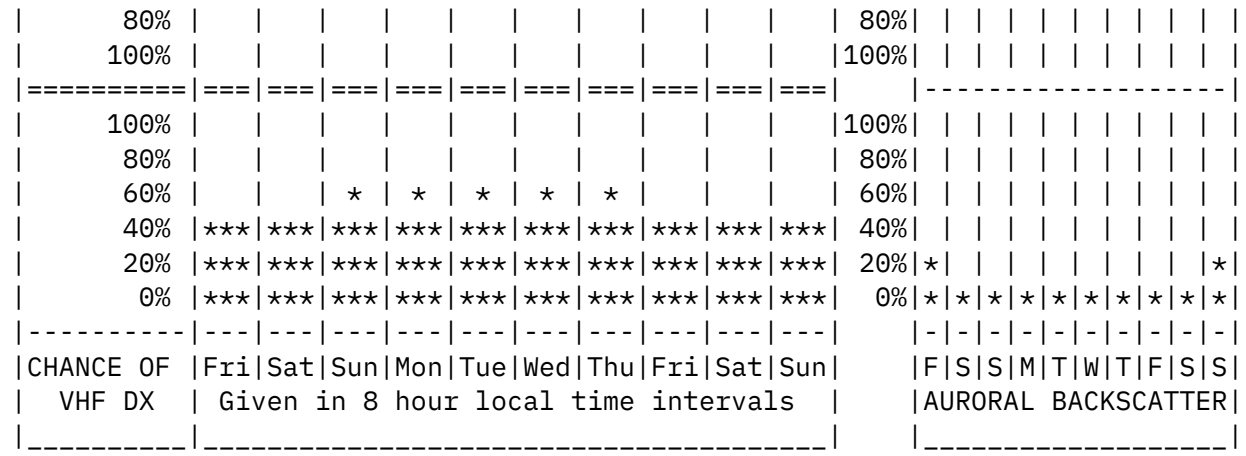


MIDDLE LATITUDES



LOW LATITUDES

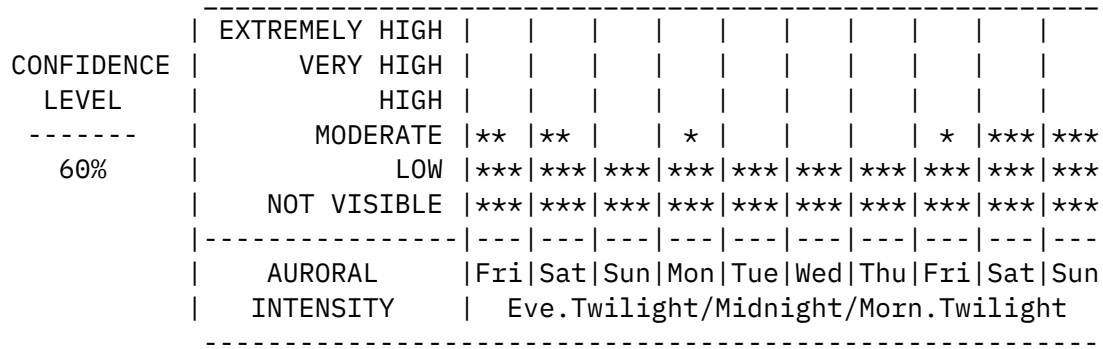




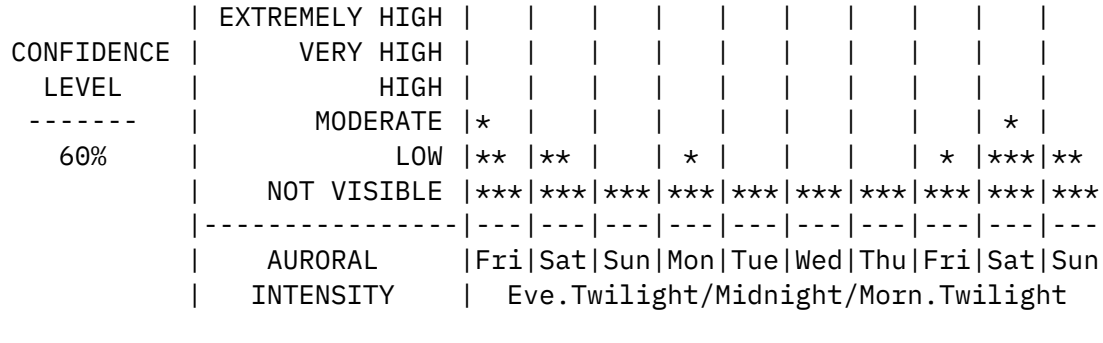
NOTES:
These VHF DX prediction charts are defined for the 30 MHz to 220 MHz bands. They are based primarily on phenomena which can affect VHF DX propagation globally. They should be used only as a guide to potential DX conditions on VHF bands. Latitudinal boundaries are the same as those for the HF predictions charts.

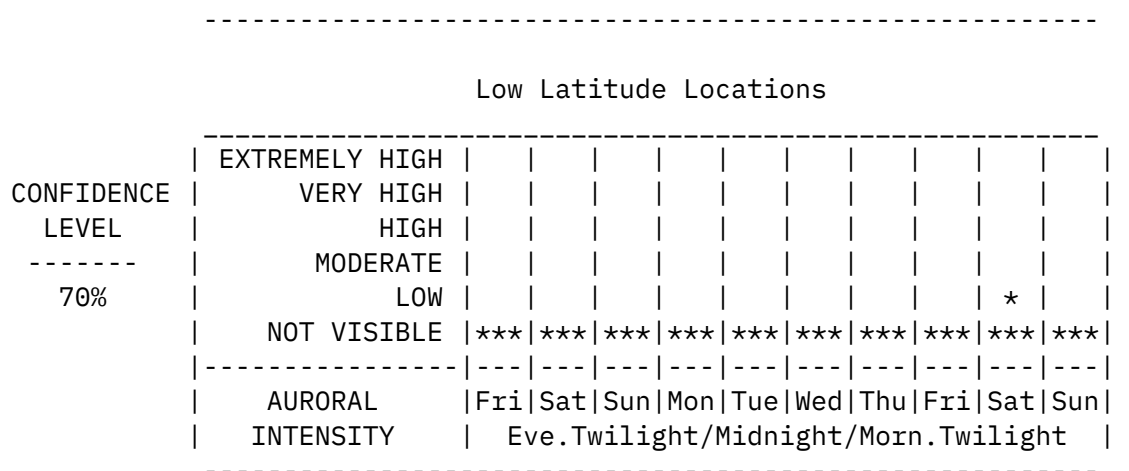
AURORAL ACTIVITY PREDICTIONS (12 MAR - 21 MAR)

High Latitude Locations



Middle Latitude Locations





NOTE:
A Dynamic Auroral Oval Simulation and Prediction Software Package is available to help make predictions and show the locations where auroral activity should be visible from the ground. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

** End of Report **

Date: 11 Mar 93 16:46:11 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: Where's Garfield? Re-Visited
To: info-hams@ucsd.edu

In article <fred-mckenzie-040393093533@k4dii.ksc.nasa.gov>,
fred-mckenzie@ksc.nasa.gov (Fred McKenzie) wrote:
> Garfield has apparently been up and down lately. On top of that, I
> discovered that there was a difference between two ftp programs, as far as
> being able to connect to them.

Lately, "garfield.catt.ncsu.edu" has been responding most of the time. However, when a connection is established, it doesn't accept me. I get different error messages, depending on the ftp program I use to connect.

Do any of the NCSU people read this? Can anyone let them know there is a problem? I suppose I'm really the one with the problem, but I don't have

it anywhere else!

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: Thu, 11 Mar 1993 20:48:59 GMT
From: news.acns.nwu.edu!casbah.acns.nwu.edu!rdewan@network.UCSD.EDU
To: info-hams@ucsd.edu

References <randall.731623999@seashore>,
<1993Mar10.094833.1238@n5ial.mythical.com>,
<GRUND.93Mar11142119@pyrite.som.cwru.edu>
Subject : Re: In Defense of HRO (Re: Ham Radio Outlet incident)

In article <GRUND.93Mar11142119@pyrite.som.cwru.edu> grund@pyrite.SOM.CWRU.edu
(Victor Grund) writes:
>
>It is worth mentioning that I've had nothing but good experiences with
>HRO. In December, I bought an Alinco 580 HT from them. About a day
>after it arrived at my house, the transmitter portion of the radio
>stopped working. A simple 5 minute phone call to HRO was all it took
>for them to send USP back out to pickup the radio and send a new one
>in its place. All I did was box up the old radio and wait for the UPS
>guy. I didn't even pay return shipping, highly unusual for a mail
>order firm. The mailing delays drove me crazy, but this is par for
>the course with a mail order firm and especially understandable given
>that it was just before Christmas.
>
>It is also worth mentioning that HRO had the lowest price I could find
>on the Alinco at the time.
>
>I've never been to their outlet stores, but agree that it would be
>nice to see prices posted at their stores, where it would be less
>complicated to make posted price adjustments.
>

I too have had very pleasant experience with HRO-Denver. About a year
ago I decided to get a dual bander 2m/70cm FM mobile rig and picked
Yaesu 5200. Got it from HRO Denver as it had the lowest price and
did not charge shipping. I had devil of a time using our repeater because
the PL crystal in the radio was faulty. (A fact that Yaesu did not
acknowledge till 4 months after my trials and tribulations.) The
machine that I use has an old reed based PL tone decoder that is very
finicky and would sporadically not accept the PL tone from the Yaesu.

I called HRO and they promptly shipped me a new Yaesu 5200. Same problem.
Called them again and they rushed me a Kenwood 741 (I got sick of talking
with Yaesu about a problem they did not want to deal with - yet).

In any case, at one point I had three (yes three) radios at home when
my card had been charged only for one. They paid all the shipping, to
and fro, from Denver to me in Northbrook, IL.

>(I have no affiliation with HRO except as a satisfied customer.)

>

And I.

Rajiv
aa9ch

End of Info-Hams Digest V93 #307
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